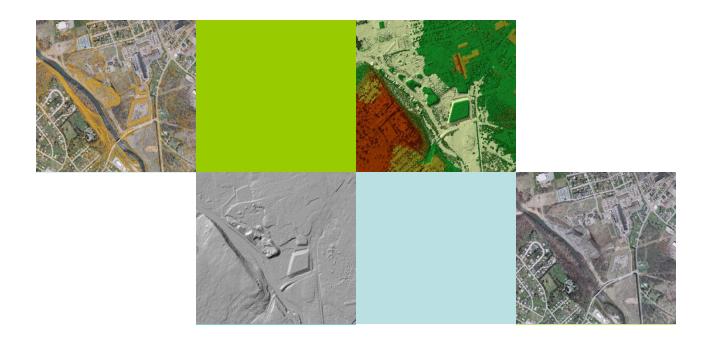
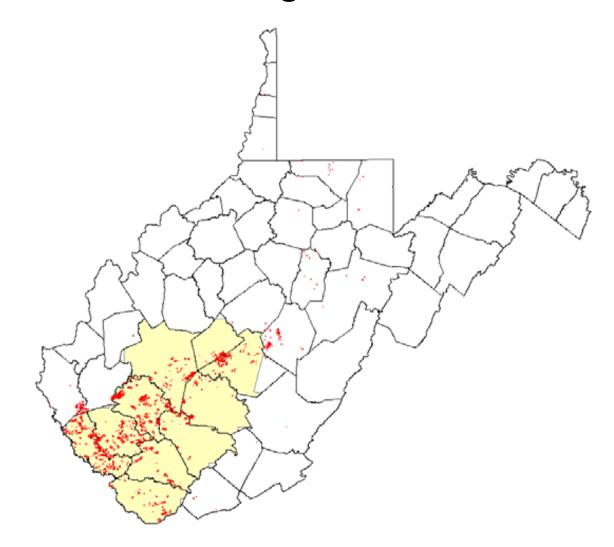
#### Putting "Place" in IT Workflows Empowers the Enterprise



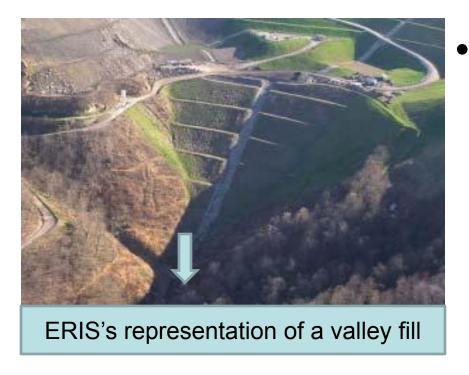
West Virginia Information Technology Summit 2009
November 5, 2009

# The problem: determine the number of miles of streams under valley fills in southern West Virginia

- What a valley fill looks like
- Where they are located in our State
- Early in this decade



### The existing RDB resource in 2001: Oracle –based ERIS



**Because of the Mountain Top** mining controversy, we were tasked to figure out how many miles of streams were covered by valley fills.

#### Resources were provided



With the funding Interferometric synthetic aperture radar (IFSAR) elevation data was purchased for 10 counties in southern West Virginia.

### The geospatial solution: created data not in our existing database.

 Initial difference grid.
 Cut areas are red, fills blue.

Results of initial reclassification.

 Initial vector polygon fill inventory.

 Final inventory, shown with cut areas added

## Results of the geospatial approach

- 479.9 mi of streams were under fills.
- Final inventory comprised 1,329 fill polygons covering an area of 38,633 acres (60.4 sq mi).
- 513 (38.6%) of the fills identified did not overlap any fill captured from permit map sources.

### Yes but this kind of thing only applies to certain agencies ...

